

8. REFERENCES

- *ACGIH. 1989. Threshold limit values and biological exposure indices for 1989-1990. American Conference of Governmental Hygienists, 18-19.
- *Aelion CM, Swindoll CM, Pfaender FK. 1987. Adaptation to and biodegradation of xenobiotic compounds by microbial communities from a pristine aquifer. *Appl Environ Microbiol* 9:2212-2217.
- *Alexander M, Lustigman BK. 1966. Effect of chemical structure on microbial degradation of substituted benzenes. *J Agric Food Chem* 14:410-413.
- *Altmann HJ, Grunow W, Mohr U, et al. 1986. Effects of BHA and related phenols on the forestomach of rats. *Food and Chemical Toxicology* 24(10/11):1183-1188.
- *Amoore JE, Hautala E. 1983. Odor as an aid to chemical safety: Odor thresholds compared with threshold limit values and volatilities for 214 industrial chemicals in air and water dilution. *J Appl Toxicol* 3:272-290.
- Anbar M, Neta. P. 1967. A compilation of specific biomolecular rate constants for the reactions of hydrated electrons, hydrogen atoms and hydroxyl radicals with inorganic and organic compounds in aqueous solution. *Int J of Appl Radiation and Isotopes* 18:493-523.
- *Andelman JB, Wachter JK, Nolle S, et al. 1984. Organic water quality and other factors in poultry plant wastewater renovation and reuse. *Water Res* 18(7):843-854.
- *Angel A, Rogers KJ. 1972. An analysis of the convulsant activity of substituted benzenes in the mouse. *Toxicol Appl Pharmacol* 21:214-229.
- *Angerer J, Wulf H. 1985. Occupational chronic exposure to organic solvents. XI. Alkylbenzene exposure of varnish workers: Effects on hematopoietic system. *Int Arch Occup Environ Health* 56:307-321.
- *Arrendale RF, Severson RF, Chortyk OT, et al. 1982. Analyses of mono- and dihydroxybenzenes in tobacco smoke and pyrolyzates by glass capillary gas chromatography. *J Chromatogr Sci* 20(3):136-143.
- *Artiola-Fortuny J, Fuller WH. 1982. Adsorption of some monohydroxybenzene derivatives by soils. *Soil Sci* 133:18-26.
- *Arvin E, Jensen B, Aamand J, et al. 1988. The potential of free-living ground water bacteria to degrade aromatic hydrocarbons and heterocyclic compounds. *Water Sci Technol* 20 (3):109-118.

8. REFERENCES

Apps PJ, Pretorius V, Lawson KH, et al. 1987. Trace analysis of complex organic mixtures using capillary gas -- liquid chromatography and the dynamic solvent effect. *J High Resolut Chromatogr Chromatogr Commun* 10(3)122-127.

Atkinson R, Pitts JN Jr. 1975. Absolute rate constants for the reaction of oxygen (3P) atoms with methoxybenzene and o-cresol. *J Phys Chem* 79:541-542.

*Atkinson R. 1985. Kinetics and mechanisms of the gas-phase reactions of the hydroxyl radical with organic compounds under atmospheric conditions. *Chem Rev* 85:69-201.

*Atkinson R, Carter WPL. 1984. Kinetics and mechanisms of the gas-phase reactions of ozone with organic compounds under atmospheric conditions. *Chem Rev* 84:437-470.

*Atkinson R, Darnell KR, Pitts JR Jr. 1978. Rate constants for reactions of OH radicals and ozone with cresols at 300 ± 1 K. *J Phys Chem* 82:2759-2761.

*Atkinson R, Carter WPL, Darnall KR, et al. 1980. A smog chamber and modeling study of the gas phase NO_x air photo-oxidation of toluene and the cresols. *Int J Chem Kinet* 12:779-836.

*Atkinson R, Carter WPL, Plum CN, et al. 1984. Kinetics of the gas-phase reactions of NO_3 radicals with a series of aromatics at 296 ± 2 K. *Int J Chem Kinetics* 16:887-898.

*Babeu L, Vaishnav DD. 1987. Prediction of biodegradability for selected organic chemicals. *J Ind Microb* 2:107-115.

*Baird RB, Kuo CL, Shapiro JS, et al. 1974. The fate of phenolics in wastewater -- determination by direct-injection GLC and Warburg respirometry. *Arch Environ Contam Toxicol* 2:165-178.

*Balba MTM, Senior E, Nedwell DB. 1981. Anaerobic metabolism of aromatic compounds by microbial associations isolated from saltmarsh sediment. *Biochem Soc Trans* 9:230-231.

*Barnes D, Bellin J, DeRosa C, et al. 1987. Reference dose (RfD): description and use in health risk assessments. Volume I, Appendix A: Integrated risk information system supportive documentation. Washington, DC: US Environmental Protection Agency, Office of Health and Environmental Assessment. EPA 600/8-86/032a.

Barth EF, Bunch RL. 1979. Biodegradation and treatability of specific pollutants. Cincinnati, OH: U.S. EPA, Municipal Environmental Research Lab. EPA 600/9-79-034.

8. REFERENCES

- *Bartholomew GW, Pfaender FR. 1983. Influence of spatial and temporal variations on organic pollutant biodegradation rates in an estuarine environment. *Appl Environ Microbial* 45(1):103-109.
- *Bassler BJ, Hartwick RA. 1989. The application of porous graphitic carbon as an HPLC stationary phase. *J Chromatogr Sci* 27(4):162-165.
- Battelle Columbus Labs. 1978. Determination of mutagenic/carcinogenic and cytotoxic potential of four chemical compounds. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517540.
- *Battersby NS, Wilson V. 1988. Evaluation of a serum bottle technique for assessing the anaerobic biodegradability of organic chemicals under methanogenic conditions. *Chemosphere* 17:2441-2460.
- *Battersby NS, Wilson V. 1989. Survey of the anaerobic biodegradation potential of organic chemicals in digesting sludge. *Appl Environ Microbial* 55:433-439.
- *Bayly RC, Wigmore GJ. 1973. Metabolism of phenol and cresols by mutants of Pseudomonas putida. *J Bacteri* 113:1112-1120.
- Bechtold WE, Sabourin PJ, Henderson RF. 1988. Reverse isotope-dilution method for determining benzene and metabolites in tissues. *J Anal Toxicol* 12(4):176-179.
- *Bedient PB, Springer NK, Baca E, et al. 1983. Ground-water transport from wastewater infiltration. *J Environ Eng* 109:485-501.
- *Bieniek G, Wilczok T. 1986. Separation and determination of phenol, 1-naphthol, m-, p- and o-cresols, 2,5-xylenol, and catechol in the urine after mixed exposure to phenol, naphthalene, cresols, and xylenols. *Br J Ind Med* 43(8):570-571.
- Bio-Fax. 1969. Toxicity data sheets for o-, p-, and m-cresol. Unpublished study by Bio-Fax Industrial Bio-test Labs for EPA/OTS. Fiche no. OTS205862.
- *Bone E, Tamm A, Hill M. 1976. The production of urinary phenols by gut bacteria and their possible role in the causation of large bowel cancer. *Am J Clin Nutr* 29:1448-1454.
- Borden RC, Lee MD, Thomas JM, et al. 1989. In situ measurement and numerical simulation of oxygen limited biotransformation. *Ground Water Monit Rev* 9(1):83-91.
- *Bossert ID, Young LY. 1986. Anaerobic oxidation of p-cresol by a denitrifying bacterium. *Appl Environ Microbial* 52:1117-1122.

8. REFERENCES

Bossert ID, Rivera MD, Young LY. 1986. p-Cresol biodegradation under denitrifying conditions: Isolation of a bacterial coculture. *Fed Eur Microbial Soc Microbial Ecol* 38(5):313-319.

Bourquin AW. 1984. Biodegradation in the estuarine-marine environments and the genetically altered microbe. EPA 600/D-84-051. NTIS PB84-151315. Gulf Breeze, FL: U.S. EPA Environmental Research Lab, 35.

*Boutwell RK, Bosch DK. 1959. The tumor-promoting action of phenol and related compounds for mouse skin. *Cancer Res* 19:413-424.

*Boyd SA. 1982. Adsorption of substituted phenols by soil. *Soil Science* 134:337-343.

*Boyd SA, Shelton DR, Berry D, et al. 1983. Anaerobic biodegradation of phenolic compounds in digested sludge. *Appl Environ Microbial* 46:50-54.

*Bray HG, Thrope WV, White K. 1950. Metabolism of derivatives of toluene. *Biochem J* 46:275-278.

*Bronstein AC, Currance PL. 1988. Emergency care for hazardous materials exposure. Washington, DC: The C.V. Mosby Company, 201-202.

*BRRC. 1988a. Bushy Run Research Center. Developmental toxicity evaluation of o-, m-, or p-cresol administered by gavage to Sprague Dawley (CD) rats. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517695.

*BRRC. 1988b. Bushy Run Research Center. Developmental toxicity evaluation of o-, m-, or p-cresol administered by gavage to New Zealand white rabbits. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517695.

*BRRC. 1989a. Bushy Run Research Center. Two-generation reproduction study of o-cresol (CAS No. 95-48-7) administered by gavage to Sprague-Dawley (CD®) rats. Project report 51-614. Unpublished data submitted to The Chemical Manufacturers Association Cresols Panel, Washington, DC.

*BRRC. 1989b. Bushy Run Research Center. Two-generation reproduction study of p-cresol (CAS No. 106-44-5) administered by gavage to Sprague-Dawley (CD®) rats. Project report 52-512. Unpublished data submitted to The Chemical Manufacturers Association Cresols Panel, Washington, DC.

*BRRC. 1989c. Bushy Run Research Center. Two-generation reproduction study of m-cresol (CAS No. 108-39-4) administered by gavage to Sprague-Dawley (CD®) rats. Project report 51-634. Unpublished data submitted to The Chemical Manufacturers Association Cresols Panel, Washington, DC.

8. REFERENCES

- *Bureau of the Census. 1985. National data book and guide to sources: Statistical abstract of the United States 1985. U.S. Bureau of the Census, Department of Commerce, Washington, DC.
- Buswell JA. 1975. Metabolism of phenol and cresol by Bacillus stearothermophilus. J Bacteriol 124:1077-1083.
- Buzzell JC Jr., Young RHF, Ryckman DW. 1968. Behavior of organic chemicals in the aquatic environment. Part II. -- Behavior in dilute systems. St. Louis, MO: Environmental Sanitary Engineering Laboratories, Washington University, 81.
- *Campbell I. 1941. Petroleum cresylic acids. A study of their toxicity and the toxicity of cresylic disinfectants. Soap Sanit Chem 17(4):103.
- *Cardwell TJ, Hamilton IC, McCormick MJ, et al. 1986. Determination of alkylphenols in refinery effluents by liquid chromatography using electrochemical detection. Environ Anal Chem 24:23-35
- Carlson RM, Caple R. 1977. Chemical/biological implications of using chlorine and ozone for disinfection. U.S. Environmental Protection Agency, Duluth, MN, 694:88. EPA 600/3-77-066. NTIS PB-270.
- *Carter WPL, Winer AM, Pitts JN Jr. 1981. Major atmospheric sink for phenol and the cresols: Reaction with the nitrate radical. 15(7):829-831.
- *CAS. 1989. Chemical Abstract Services, December 6, 1989.
- *Cason JS. 1959. Report on three extensive industrial chemical burns. Br Med J 1:827-829.
- *Cautreels W, Van Cauwenberghe K. 1978. Experiments on the distribution of organic pollutants between airborne particulate matter and the corresponding gas phase. Atmos Environ 12:1133-1141.
- *Chambers CW, Tabak HH, Kabler PW. 1963. Degradation of aromatic compounds by phenol-adapted bacteria. J Water Pollut Contr Fed 35:1517-1528.
- *Chan TK, Mak LW, Ng RP. 1971. Methemoglobinemia, Heinz bodies and acute massive intravascular hemolysis in Lysol poisoning. Blood 38:739-744.
- *Chao J, Lin CT, Chung TH. 1983. Vapor pressure of coal chemicals. J Phys Chem Ref Data 12(4):1033-1063.
- *Chemline Database. 1989. National Library of Medicine, Bethesda, MD. September 13, 1989.

8. REFERENCES

- *Cheng M, Kligerman AD. 1984. Evaluation of the genotoxicity of cresols using sister-chromatid exchange (SCE). *Mutat Res* 137(1):51-55.
- Chinn SS, Tatishi GA, Yee JJS. 1984. Water resources data Hawaii and other Pacific areas water year 1984: Volume 1. Hawaii. U.S. Geological Survey Water-Data Report HI-84-1.
- *Chudoba J, Prasil M, Emmerova H. 1968. Residual organic matter in activated sludge process effluents. III. Degradation of amino acids and phenols under continuous conditions. *SB VYS Sk Chem-Technol Praze, Technol Vody* 13:45-63.
- CIIT. 1983. Preliminary result of in vivo and in vitro sister chromatid exchange assays on cresol isomers and of an immunological evaluation of o-cresol. Memorandum to Office of Pesticides and Toxic Substances. Chemical Industry Institute of Toxicology, Research Triangle Park, NC. CIIT Docket no. 12283.
- *CLPSD. 1988. Contract Laboratory Program Statistical Database. Viar and Company, Alexandria, VA. August 16, 1988.
- *CMR . 1987. Chemical Marketing Reporter. Chemical profile: Cresylics. November 30, 1987.
- Cobb HD. 1973. An ecological approach to the problem of biodegradation of phenolic wastes. Arlington, VA: Air Force Office of Scientific Research, 16. AFOSR-TR-73-2002. NTIS AD-770750.
- Cobb HD, Olive W, Atherton R. 1975. An ecological approach to the problem of biodegradation of phenolic wastes. *Gov Rep Announce Index* 76:154. NTIS ADA-020758.
- *Cote MA, Lyonnais J, Leblond PF. 1984. Acute Heinz-body anemia due to severe cresol poisoning: Successful treatment with erythrocytapheresis. *Can Med Assoc J* 130(10):1319-1322.
- Czuczwa J, Levenberger C, Tremp J, Giger W. 1987. Determination of trace levels of phenol and cresols in rain by continuous liquid-liquid extraction and high-performance liquid chromatography. *J Chromatogr* 403:233-241.
- *Daubert TE, Danner RD. 1985. Data compilation tables of properties of pure compounds. Design Institute for Physical Property Data, American Institute of Chemical Engineers. New York, NY, C7H80.
- *Daugherty JP, Franks H. 1986. Effect of monocyclic derivatives on DNA repair in human lymphocytes. *Res Commun Chem Pathol Pharmacol* 54(1):133-136.
- *Delfino JJ, Miles CJ. 1985. Aerobic and anaerobic degradation of organic contaminants in Florida groundwater. *Soil Crop Sci Soc Fl Proc* 44:9-14.

8. REFERENCES

- *Deichmann WB, Witherup S. 1944. Phenolic studies VI: The acute and comparative toxicity of phenol and o-, m-, and p-cresols for experimental animals. *J Pharmacol Exp Ther* 80:233-240.
- *Dellal V. 1931. Acute pancreatitis following Lysol poisoning. *Lancet* 1:407.
- *Demirjian YA, Westman TR, Joshi AM, et al. 1984. Land treatment of contaminated sludge with wastewater irrigation. *J Water Pollut Control Fed* 56:370-377.
- *Demirjian YA, Joshi AM, Westman TR. 1987. Fate of organic compounds in land application of contaminated municipal sludge. *J Water Pollut Control Fed* 59:32-38.
- *DeRosa E, Bartolucci GB, Sigon M, et al. 1987. Hippuric acid and ortho-cresol as biological indicators of occupational exposure to toluene. *Am J Ind Med* 11(5):529-537.
- Devi CR, CA Sastry. 1987. Pathological changes due to o-cresol, resocinol and 2,5-xyleneol to the brain (Optic Tectus) of Teleost Saurotherodon mossambicus (Peters). *J Environ Biol* 8(4):307-314.
- Dobbins DC, Pfaender FK. 1987. Kinetics of amino acids and m-cresol biogradation in an unpolluted aquifer soil profile. American Society of Microbiol Abstr 87th Annual Meeting, Atlanta, GA, 298.
- *Dobbins DC, Pfaender FK. 1988. Methodology for assessing respiration and cellular incorporation of radiolabeled substrates by soil microbial communities. *Microb Ecol* 15: 257-273.
- *Dobson KR, Stephenson M, Greenfield PF, et al. 1985. Identification and treatability of organics in oil shale retort water. *Water Res J* 19:849-856.
- Donhauser S, Narziss L, Glas K, et al. 1989. Two rapid methods for determination of neutral phenols in beer. *Monatsschr Brauwiss* 42(2):88-91.
- *Douglas GR, Nestmann ER, Betts JL, et al. 1980. Mutagenic activity in pulp mill effluents. Water Chlorination: *Environ Impact Health Eff* 3:865-880.
- Dow Chemical. 1978. Acute toxicological properties and industrial handling hazards of cresol (ortho, meta, para isomers). Unpublished data submitted to EPA/OTS. Fiche no. OTS206146.
- Draper WM, Crosby DG. 1983. The photochemical generation of hydrogen peroxide in natural waters. *Arch Environ Contam Toxicol* 12:121-126.

8. REFERENCES

- *Dreibelbis WG, Ealy JA, Porter WE. 1985. Industrial hygiene monitoring for evaluation of employee exposure and control measures in coal conversion program at Oak Ridge National Laboratory. In: Cooke M, Dennis AJ, ed. Polynuclear aromatic hydrocarbons: Mechanisms, methods and metabolism. Columbus, OH: Battell Press, 351-363.
- *Drinkwater LA, Zoltek J Jr, Delfino JJ. 1986. Bench scale treatability of leachate from an abandoned phenolic waste site. J Water Pollut Control Fed 58(11):1057-1065, 644A.
- Eastman Kodak. 1978. Toxicity and health hazard summary for o-cresol. Unpublished data submitted to EPA/OTS. Fiche no. OTS 206539.
- *Eisenreich SJ, Looney BB, Thornton JD. 1981. Airborne organic contaminants in the Great Lakes ecosystem. Env Sci Tech 15:30-38.
- EPA. 1980. Guidelines and methodology used in the preparation of health effect assessment chapters of the consent decree water criteria documents. US Environmental Protection Agency. Federal Register 45:79347-79357.
- EPA 1984. Superfund record of decision: Western sand and gravel site: RI. EPA/ROD/R01-84/006.
- EPA. 1985. Superfund record of decision: New Lyme, OH. EPA/ROD/R05-85/023.
- *EPA. 1986. Superfund programs. Reportable quantity adjustments: Final rule. U.S. Environmental Protection Agency. Federal Register 40 CFR Parts 117 and 302.
- *EPA. 1988a. USEPA Contract Laboratory Program statement of work for organic analysis. Semi-volatile compounds. D-1/SV to D-45/SV.
- *EPA. 1988b. Code of Federal Regulations, protection of the environment. 40 CFR 136.3.
- *EPA. 1989. Interim methods for development of inhalation reference doses. U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. Washington, DC. EPA 600/8-88-066F.
- Falk-Petersen IB, Kjorsvik E, Lonning S, et al. 1985. Toxic effects of hydroxylated aromatic hydrocarbons on marine embryos. Sarsia 70:11-16.
- *Faust BC, Holgné J. 1987. Sensitized photooxidation of phenols by fulvic acid in natural waters. Environ Sci Technol 21:957-964.
- FDRL (Food and Drug Research Labs). 1975. Acute toxicity studies of ortho-cresol in rats and rabbits. Unpublished data submitted to EPA/OTS. Fiche no. OTS206095.

8. REFERENCES

- *Fedorak PM, Hrudey SE. 1984. The effects of phenol and some alkyl phenolics on batch anaerobic methanogenesis. *Water Res* 18:361-367.
- *Fedorak PM, Hrudey SE. 1986. Nutrient requirements for the methanogenic degradation of phenol and p-cresol in anaerobic draw and feed cultures. *Water Res* 20(7):929-933.
- *Fedorak PM, Roberts DJ, Hrudey SE. 1986. The effects of cyanide on the methanogenic degradation of phenolic compounds. *Water Res* 20(10):1315-1320.
- *Fiege H, Bayer AG. 1987. Cresols and xylenols. In: Ullmans Encyclopedia of Industrial Chemistry. Leverkusen, Federal Republic of Germany.
- *Finzer KH. 1961. Lower nephron nephrosis due to concentrated Lysol vaginal douches: A report of two cases. *Can Med Assoc J* 84:549.
- Fischer B. 1955. Significance of Heinz bodies in anemia of obscure etiology. *Am J Med Sci* 230:143-146.
- *Florin I, Rutberg L, Curvall M, et al. 1980. Screening of tobacco smoke constituents for mutagenicity using the Ames' test. *Toxicol* 15(3):219-232.
- *Freitag D, Geyer H, Kraus A, et al. 1982. Ecotoxicological profile analysis: VII. Screening chemicals for their environmental behavior by comparative evaluation. *Ecotoxicology and Environ Safety* 60:60-81.
- *Gaffney JS, Streit GE, Spall WD, et al. 1987. Beyond acid rain: Do soluble oxidants toxins interact with SO₂ and NO_x to increase ecosystem effects? *Environ Sci Technol* 21(6):519-523.
- *Gantzer CJ, Kollig HP, Rittmann BE, et al. 1988. Predicting the rate of trace-organic compound removal by natural biofilms. *Water Research* 22:191-200.
- *Giabbai MF, Cross WI-I, Chian ESK, et al. 1985. Characterization of major and minor organic pollutants in wastewaters from coal gasification processes. *Int J Environ Anal Chem* 20:113-129.
- Geiger DL, Poirier SH, Brooke LT, et al. 1986. Acute toxicities of organic chemicals to fathead minnows (*Pimephales promelas*). Superior, WI: Center for Lake Superior Environmental Studies, University of Wisconsin, 3:328.
- *Godsy EM, Goerlitz DF, Ehrlich GG. 1983. Methanogenesis of phenolic compounds by a bacterial consortium from a contaminated aquifer in St. Louis Park, Minnesota. *Bull Environ Contam Toxicol* 30:261-268.

8. REFERENCES

- *Goerlitz DF, Troutman DE, Godsy EM, et al. 1985. Migration of woodpreserving chemicals in contaminated groundwater in a sand aquifer at Pensacola, Florida. *Environ Sci Tech* 19:955-961.
- *Goodley PC, Gordon M. 1976. Characterization of industrial organic compounds in water, Kentucky Academy of Science 37:11-15.
- *Gordon M, Goodley PC. 1971. Isolation and characterization of industrial organic pollutants in water. American Chemical Society, Division of Water, Air and Waste Chemistry. 11:91-94.
- *Great Lakes Water Quality Board. 1983. An inventory of chemical substances identified in the Great Lakes ecosystem. Volume 1 -- summary. Report to the Great Lakes Water Quality Board, Windsor Ontario, Canada, 1-195.
- *Green MA. 1975. A household remedy misused - fatal cresol poisoning following cutaneous absorption (a case report). *Med Sci Law* 15:65-66.
- *Grosjean D. 1984. Atmospheric reactions of ortho cresol: Gas phase and aerosol products. *Atmos Env* 18:1641-1652.
- *Grosjean D. 1985. Reactions of o-cresol and nitrocresol with NO_x in sunlight and with ozone-nitrogen dioxide mixtures in the dark. *Environ Sci Technol* 19(10):968-974.
- *Haddad UI, Winchester JF. 1990. Clinical management of poisoning and drug overdose. 2nd ed. Philadelphia, PA: W.B. Saunders Company, Harcourt Brace Jovanovich, Inc., 1290-1292.
- Hall GF, Best DJ, Turner APF. 1988. Amperometric enzyme electrode for the determination of phenols in chloroform. *Enzyme Microb Technol* 10 (9):543-546.
- Hall RR, Esbenshade KL. 1984. Depression of glucuronyltransferase activity by glucocorticoids in adult female mice. *J Anim Sci* 58(6):1412-1417.
- *Hampton CV, Pierson WR, Hanrey TM, et al. 1982. Hydrocarbon gases emitted from vehicles on the road. I. A qualitative gas chromatography/mass spectrometry survey. *Environ Sci Technol* 16:287-298.
- *Hansch C, Leo AJ. 1985. Medchem Project. Claremont, CA: Pomona College, Issue 26.
- *Haworth S, Lawlor T, Mortelmans K, et al. 1983. Salmonella mutagenicity test results for 250 chemicals. *Environ Mutagen Suppl* 1:3-142.
- *Hawthorne SB, Sievers RE. 1984. Emission of organic air pollutants from shale oil wastewaters. *Environ Sci Technol* 18:483-490.

8. REFERENCES

- *Hawthorne SB, Miller DJ, Barkley RM, et al. 1988. Identification of methoxylated phenols as candidate tracers for atmospheric wood smoke pollution. *Environ Sci Technol* 22(10):1191-1196.
- *Hawthorne SB, Krieger MS, Miller DJ, et al. 1989. Collection and quantitation of methoxylated phenol tracers for atmospheric pollution from residential wood stoves. *Environ Sci Technol* 23(4):470-475.
- *Hazleton Labs. 1988a. Mutagenicity tests on o-, m-, and p-cresol in an in vitro cytogenetic assay measuring chromosomal aberration frequencies in CHO cells. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517691.
- *Hazleton Labs. 1988b. Mutagenicity tests on o-cresol in the in vitro transformation of BALB/C-3T3 cells assay in the presence of rat liver cell activation system. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517697.
- *Hazleton Labs. 1988c. Mutagenicity tests of p-cresol and m-cresol in a mouse lymphoma mutation assay. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517693.
- *Hazleton Labs. 1988d. Mutagenicity tests on meta-cresol and para-cresol in the in vitro transformation of BALB/C-3T3 cells assay. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517694.
- *Hazleton Labs. 1988e. Mutagenicity tests on meta-cresol in a rat primary hepatocyte unscheduled DNA synthesis assay. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517692.
- *Hazleton Labs. 1988f. Mutagenicity tests on m-cresol in the in vitro transformation of BALB/C-3T3 cells assay. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517698.
- *Hazleton Labs. 1989a. Dominant lethal assay in mice: Ortho cresol CRE-9.1-DL-HLA. HLA study no. 10004-O-471. Unpublished data submitted to Chemical Manufacturers Association, Washington, DC.
- *Hazleton Labs. 1989b. Dominant lethal assay in mice: Para cresol CP945. HLA study no. 10003-O-471. Unpublished data submitted to Chemical Manufacturers Association, Washington, DC.
- *Hazleton Labs. 1989c. Mutagenicity test on cresol program panel sample #2 meta-cresol in the mouse bone marrow cytogenetic assay. HLA study no. 10002-O-451. Unpublished data submitted to Chemical Manufacturers Association, Washington, DC.

8. REFERENCES

- *Hazleton Labs. 1989d. Mutagenicity test on ortho-cresol (lot number RC645A) Drosophila melanogaster sex-linked recessive lethal test. HLA study no. 10004-0-461. Unpublished data submitted to Chemical Manufacturers Association, Washington, DC.
- *Hazleton Labs. 1989e. Mutagenicity test on para-cresol (lot number 1206, batch 807) Drosophila melanogaster sex-linked recessive lethal test. HLA study no. 10003-0-461. Unpublished data submitted to Chemical Manufacturers Association, Washington, DC.
- Hecht SS, Carmella S, Furuya K, LaVoie EEJ. 1981. Polynuclear aromatic hydrocarbons and catechol derivatives as potential factors in digestive tract carcinogenesis. In: Sugimura T, Kondo S, Takebe, eds. Environmental mutagens and carcinogens; Proceedings of the 3rd International Conference, Tokyo, Japan, Sept. 21-27, 1981. New York: Alan R. Liss, Inc., 545-556.
- *Heikkila PR, Hameila M, Pyy L, et al. 1987. Exposure to creosote in the impregnation and handling of impregnated wood. Scand J Work, Environ Health 13:431-437.
- *Herwick RP, Treweek DN. 1933. Burns from anesthesia mask sterilized in compound solution of cresol. J Am Med Assoc 100:407-408.
- *Heukelekian H, Rand MC. 1955. Biochemical oxygen demand of pure organic compounds. J Water Pollut Contr Assoc 29:1040-1053.
- *Hine J, Mookerjee PK. 1975. The intrinsic hydrophilic character of organic compounds. Correlations in terms of structural contributions. J Org Chem 40:292-298.
- *Hirose M, Inoue T, Asamoto M, et al. 1986. Comparison of the effects of 13 phenolic compounds in induction of proliferative lesions of the forestomach and increase in the labeling indices of the glandular stomach and urinary bladder epithelium of Syrian golden hamsters. Carcinogenesis 7(8):1285-1289.
- *Hites RA. 1979. Sources and fates of industrial organic chemicals; a case study. Proceeds of the 8th National Conference on Municipal Sludge Management, 107-119.
- *Hites RA, Lopez-Avila V. 1980. Sedimentary accumulation of industrial organic compounds discharged into a river system. In: Baker RA, ed. Contaminants and sediments. Vol. 1. Fate and transport case studies, modeling, toxicity. Ann Arbor, MI: Ann Arbor Sci., 53-66.
- *Ho CT, Lee KN, Jin QZ. 1983. Isolation and identification of volatile flavor compounds in fried bacon. J Agric Food Chem 31:336-342.

8. REFERENCES

- Hodson J. 1988. The estimation of the photodegradation of organic compounds by hydroxyl radical reaction rate constants obtained from nuclear magnetic resonance spectroscopy chemical shift data. *Chemosphere* 17:2339-2348.
- *Hoffman WA Jr, Tanner RL. 1986. Detection of organic acids in atmosphere precipitation. Report to the United States Department of Energy by Brookhaven National Laboratory, Environmental Chemistry Division, Department of Applied Science. BNL-51922. NTIS DE8 005294.
- *Hohnegger M, Vermes M, Esposito R, et al. 1988. Effect of some uremic toxins on oxygen consumption of rats in vivo and in vitro. *Nephron* 48(2):154-158.
- *Hornshaw TC, Aulerich RJ, Ringer RR. 1986. Toxicity of o-cresol to mink and European ferrets. *Environ Toxicol Chem* 5(8):713-720.
- *Horowitz A, Shelton DR, Cornell CP, et al. 1982. Anaerobic degradation of aromatic compounds in sediments and digested sludge. *Dev Ind Microbiol* 23:435-444.
- *HSDB. 1989. Hazardous Substance Data Bank. National Library of Medicine, National Toxicology Information Program, Bethesda, MD. September 11, 1989.
- *Hu LZ, Shieh WK. 1987. Anoxic biofilm degradation of monocyclic aromatic compounds. *Biotechnology and Bioengineering* 30:1077-1083.
- *Hutchins SR, Tomson MB, Wilson JT, et al. 1984. Fate of trace organics during rapid infiltration of primary waste water at Fort Devens, Massachusetts (USA). *Water Res* 18(8):1025-1036.
- *Hwang HM, Hodson RE, Lewis DL. 1989. Microbial degradation kinetics of toxic organic chemicals over a wide range of concentrations in natural aquatic systems. *Environ Toxicol Chem* 8:65-74.
- *Isaacs R. 1922. Phenol and cresol poisoning. *Ohio State Med J* 18:558-561.
- *IRIS. 1991. Integrated Risk Information System. Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, U.S. Environmental Protection Agency, Cincinnati, OH.
- *James RH, Adams RE, Finkel JM, et al. 1984. Evaluation of analytical methods for the determination of POHC on combustion products. In: *J Proc --APCA 77th Annual Meeting*, June 24-29. San Francisco, CA. Paper 84-18.5 p. 1-25.
- *Jensen BR, Arvin E, Gundersen AT. 1988. Biodegradation of nitrogen- and oxygen-containing aromatic compounds in groundwater from an oil-contaminated aquifer. *J Contaminant Hydrology* 3(1):65-75.

8. REFERENCES

- *Johnson LD, Midgett MR, James RH, et al. 1989. Screening approach for principal organic hazardous constituents and products of incomplete combustion. *J Air Pollut Control Assoc* 39(5):709-713.
- *Jouglaard J, Aquaron R, Gatua-Pelanchon J, et al. 1971. [Acute poisoning with a household antiseptic: "Cresyl".] *Mars Med* 108:425-431. (French)
- *Junk GA, Ford CS. 1980. A review of organic emissions from selected combustion processes. *Chemosphere* 9:187-230.
- *Kawamura K, Kaplan IR. 1986. Compositional change of organic matter in rainwater during precipitation events. *Atmos Environ* 20(3):527-536.
- *Keith LH. 1974. Chemical characterization of industrial wastewaters by gas chromatography-mass spectrometry. *Sci Total Environ* 3:87-102.
- *Kinlin TE, Muralidhara R, Pittet AO, et al. 1972. Volatile components in roasted filberts. *J Agric food Chem* 20:1021.
- *Klinger ME, Norton JF. 1945. Toxicity of cresylic acid-containing solvent. *US Nav Med Bull* 44(2):438-439.
- *Koch R, Nagel M. 1988. Quantitative structure activity relationships in soil ecotoxicology. *Sci Total Environ* 77(2-3):269-276.
- *Kolber A, Wolff T, Hughes T, et al. 1981. Collection, chemical fractionation, and mutagenicity bioassay of ambient air particulate. In: *Short term bioassays in the analysis of complex environ mix II*, 21-44.
- *Kollig HP, Parrish RS, Holm HW. 1987. An estimate of the variability in biotransformation kinetics of xenobiotics in natural waters by Aufwuchs communities. *Chemosphere* 16:49-60.
- *Krotoszynski BK, O'Neill HJ. 1982. Involuntary bioaccumulation of environmental pollutants in nonsmoking heterogenous human population. *J Environ Sci Health Part A Environ Sci Eng* 17(6):855-883.
- *Kuhn EP, Zeyer J, Eitner P, et al. 1988. Anaerobic degradation of alkylated benzenes in denitrifying laboratory aquifer columns. *Appl Environ Microbiol* 54:490-496.
- Kurlyandskiy BA, Partsef DP, Chernomorskiy AR. 1975. [A procedure for determining the mean daily maximum permissible concentration of tricresol in atmospheric air.] *Gig Sanit* 5:85-87. (Russian)
- *Kuwata K, Tanaka S. Liquid chromatographic determination of traces of phenols in air. *J Chromatogr* 442:407-411.

8. REFERENCES

- *Labram C, Gervais P. 1968. [A case of massive cresol poisoning.] *Sem Hop Paris* 44:3029-3031. (French)
- *Larcan A, Lambert H, Laprevote-Heully MC. 1974. [A case of acute cresol poisoning with massive acute hemolysis, methemoglobinemia, and Heinz bodies.] *Eur J Toxicol* 7:5-8. (French)
- *Lehtonen M. 1983. Gas-liquid chromatographic determination of volatile phenols in matured distilled alcoholic beverages. 66(1):62-70.
- *Leone JA, Flagan RC, Grosjean D, et al. 1985. An outdoor smog chamber and modeling study of toluene-NO, photooxidation. *Int J Chem Kinet* 17(2):177-216.
- *Leuenberger C, Ligocki MP, Pankow JF. 1985. Trace organic compounds in rain. 4. Identities, concentrations, and scavenging mechanisms for phenols in urban air and rain. *Environ Sci Technol* 19(11):1053-1058.
- *Lewis DL, Holm HW, Hodson RE. 1984. Application of single and multiphasic Michaelis-Menten kinetics to predictive modeling for aquatic ecosystems. *Env Tox Chem* 3:563-574.
- *Lewis DL, Kollig HP, Hodson RE. 1986. Nutrient limitation and adaptation of microbial populations to chemical transformations. *Appl Environ Microb* 51:598-603.
- *Liberti A, Goretti G, Russo MV. 1983. PCDD and PCDF formation in the combustion of vegetable wastes. *Chemosphere* 12:661-663.
- *Litton Bionetics. 1980a. Sister chromatid exchange assay, Ames assay, mouse lymphoma forward mutation assay, and transformation assay for a sample containing 33-1/3% each ortho-, meta-, and para-cresol. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517528.
- Litton Bionetics. 1980b. Unscheduled DNA synthesis assay for a sample containing 33-1/3% each ortho-, meta-, and para-cresol. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517530.
- *Litton Bionetics. 1981. Sister chromatid exchange assay, Ames assay, mouse lymphoma forward mutation assay, and cell transformation on o-cresol. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517531.
- *Ludzack FJ, Ettinger MB. 1960. Chemical structures resistant to aerobic biochemical stabilization. *J Water Pollut Control Fed* 32:1173-2000.
- Luessem H. 1975. Effect of phenolic disinfectants on waste water treatment. *Vom Wasser* 45:327-334.

8. REFERENCES

- *Luh MD, Baker RA. 1970. Organic sorption from aqueous solution by two clays. Proceedings of the 25th Industrial Waste Conference, Purdue University, Eng Bull Ext Series. 25:534-542.
- Lumanta IG Jr. 1987. The effects of tyrosine, p-hydroxyphenylacetic acid, p-cresol and bacitracin methylene disalicylate on the growth of weanling pigs. Dissertation Abstracts International 49/04-B:959.
- *Lund FA, Rodriguez DS. 1984. Acclimation of activated sludge to mono-substituted derivatives of phenol and benzoic acids. J Gen Appl Microbiol 30:53-61.
- Lunsford RA, Okenfuss JR, Shulman SA. 1987. Diesel exhaust/coal dust exposure study: Characterization of selected vapor-phase organic emissions. Government Reports Announcements and Index 13: . NTIS PB87-162889.
- *Lyman WJ, Reehl WF, Rosenblatt DH, eds. 1982. Handbook of chemical property estimation methods. New York: McGraw Hill Book Co., Chapter 15.
- *Malaney GW. 1960. Oxidative abilities of aniline-acclimated activated sludge. J Water Pollut Control Fed 32:1300-1311.
- *Malaney GW, McKinney RE. 1966. Oxidative abilities of benzene-acclimated activated sludge. Water Sewage Works 113:302-309.
- *Masunaga S, Urushigawa Y, Yonezawa Y. 1983. Microbial transformation of o-cresol to dihydroxytoluenes by phenol acclimated activated sludge. Chemosphere 12:1075-1082.
- *Masunaga S, Urishigawa Y, Yonezawa Y. 1986. Biodegradation pathway of o-cresol by heterogeneous culture. Phenol activated sludge. Water Res 20:477-484.
- Mattson VR, Arthur JW, Walbridge CT. 1976. Acute toxicity of selected organic compounds to fathead minnows. Duluth, MN: Ecol Res Ser, Environmental Research Laboratory, U.S. Environmental Protection Agency, 12. EPA 600/3-76-097.
- *Mattsson JL, Albee RR, Gorzinski SJ. 1989. Similarities of toluene and o-cresol neuroexcitation in rats. Nuerotoxicol Teratol 11(1):71-75.
- *MBA. 1988a. Subchronic toxicity of ortho-cresol in Sprague Dawley rats. Unpublished data submitted by Microbiological Associates to EPA.
- *MBA. 1988b. Subchronic toxicity of para-cresol in Sprague Dawley rats. Unpublished data submitted by Microbiological Associates to EPA.

8. REFERENCES

- *MBA. 1988c. Subchronic toxicity of meta-cresol in Sprague Dawley rats. Unpublished data submitted by Microbiological Associates to EPA.
- McCallum NK. 1986. Specific method for the analysis of low-molecular-weight phenols using pentafluorobenzyl ethers. Lower Hutt, New Zealand: Department of Science and Industrial Research.
- *McKinney RE, Tomlinson HD, Wilcox RL. 1956. Metabolism of aromatic compounds by activated sludge. *Sew Indust Wastes* 28:547-557.
- *McKnight DM, Pereira WE, Ceazan ML, et al. 1982. Characterization of dissolved organic materials in surface waters within the blast zone of Mount St. Helens, Washington. *Org Geochem* 4:85-92.
- *Medvedev VA, Davidov VD. 1981a. The influence of isomers on the transformation rate of phenols in Chernozem soil. In: Overcash MR, ed. *Decomposition of toxic and nontoxic organic compounds in soil*. Ann Arbor, MI: Ann Arbor Sci Publ., 175-181.
- *Medvedev VA, Davidov VD. 1981b. The transformation of various coke industry products in Chernozem soil. In: Overcash MR, ed. *Decomposition of toxic and nontoxic organic compounds in soil*. Ann Arbor, MI: Ann Arbor Sci Publ., 245-254.
- Mellon Institute. 1949. The acute toxicity of m-cresol. Unpublished data submitted by Mellon Institute of Industrial Research to EPA/OTS. Fiche no. OTS0517523.
- Mizutani T, Ishida I, Yamaoto K, et al. 1982. Pulmonary toxicity of butylated hydroxytoluene and related alkylphenols: Structural requirements for toxic potency in mice. *Toxicol Appl Pharmacol* 62(2):273-281.
- *Mogey GA, Young PA. 1949. The antagonism of curarizing activity by phenolic substances. *Brit J Pharmacol* 4:359.
- *Moore SP, Coohill TP. 1983. An SV40 mammalian inductest for putative carcinogens. *Prog Nucleic Acid Res Mol Biol* 29:149-153.
- *Mulawa PA, Cadle SH. 1981. Measurement of phenols in automobile exhaust. *Anal Lett* 14(A9):671-687.
- Murray KE, Adams RF. 1988. Determination of simple phenols in feces and urine by high performance liquid chromatography. *J Chromatogr Biomed Appl* 431(1):143-149.

8. REFERENCES

- *NATICH. 1988. National Toxics Information Clearinghouse. NATICH data base report on state, local and EPA air toxics activities. Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, Research Triangle Park, NC.
- *Namkoong W, Loehr RC, Malina JF Jr. 1988. Kinetics of phenolic compounds removal in soil. Hazard Waste Hazard Mater 5(4):321-328.
- *NAS/NRC. 1989. Biologic markers in reproductive toxicology. National Academy of Sciences/National Research Council. Washington, DC: National Academy Press, 15-35.
- *Needham LL, Head SL, Cline RE. 1984. Determination of phenols and cresols in urine by gas chromatography. Anal Lett 17(B14):1555-1565.
- *Neufeld RD, Debes MR, Moretti C, et al. 1985. Cooling tower evaporation of treated coal gasification wastewaters. J Water Pollut Control Fed 57(9):955- 964.
- Nickerson WJ. 1956. Transformation of carbon compounds by microorganisms. Ind Eng Chem 48:1141-1142.
- *Nieminen E, Heikkila P. 1986. Simultaneous determination of phenol, cresols and xylenols in workplace air, using a polystyrene-divinylbenzene column and electrochemical detection. J Chromatogr 360(1):271-278.
- NIOSH. 1981. Health Hazard Evaluation Report No. HETA-81-378-1000, Keystone Diesel Engine Company, Wexford, Pennsylvania. Hazard Evaluations and Technical Assistance Branch, National Institute for Occupational Safety and Health, Cincinnati, Ohio. NTIS PB82-187-006/A02.
- NIOSH. 1983. Health Hazard Evaluation Report No. HETA-82-028-1249, Morton Chemical Corporation, New Iberia, Louisiana. Hazard Evaluations and Technical Assistance Branch, National Institute for Occupational Safety and Health, Cincinnati, Ohio. NTIS PB84-172-931/A02.
- *NIOSH. 1984. Current awareness file. Washington, DC: U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health.
- *NIOSH. 1989. National occupational exposure survey as a March 29, 1989. Washington, DC: U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health.
- *Novotny M, Merli F, Wiesler D, et al. 1982. Fractionation and capillary gas chromatographic-mass spectrometric characterization of the neutral components in marijuana and tobacco smoke condensates. J Chromatogr 238(1):141-150.

8. REFERENCES

- O'Brochta J. 1949. Cresols. In: Kirk RE, Othmer DF, eds. Kirk-Othmer encyclopedia of chemical technology. 1st ed. New York: Interscience Encyclopedia, Inc., 4:600-607. (Cited in Santodonato 1986)
- *OHM/TADS. 1989. Oil and hazardous materials technical assistance data base. September 1, 1989.
- Olive WE Jr., Cobb HD, Atherton RM. 1976. biological treatment of cresylic acid laden waste water. In: Sharpley JM, Kaplan AM, eds. Proceedings of the 3rd International Biodegradation Symposium, Barking, England. Appl Sci 381,388.
- *Oliveira DP, Sitar N. 1985. Ground water contamination from underground solvent storage tanks, Santa Clara, California. In: Proceedings of the Fifth National Symposium on Aquifer Restoration and Ground Water Monitoring, 691-708.
- *OSHA. 1989. Air Contaminants. Final Rule. U.S. Department of Labor, Occupational Safety and Health Administration. Federal Register 54(12):2923-2960. 29 CFR 1910.
- *Palumbo AV, Pfaender FK, Paerl HW. 1988. Biodegradation of NTA and m-cresol in coastal environments. Environ Toxicol Chem 7:573-585.
- *Paris DF, Wolfe NL, Steen WC, et al. 1983. Effect of phenol molecular structure on bacterial transformation rate constants in pond and river samples. Appl Environ Microbiol 45:1153-1155.
- Parr JL, Bollinger MJ, Carlberg KA. 1986. Monitoring requirements and analytical method selection for EPA programs (RCRA, CERCLA, SDWA, CWA). In: Haztech '86 International Conference Proceedings, August 11-15, 1986, Denver, CO, 728-744.
- *Pauli O, Franke G. 1971. Behaviour and degradation of technical preservatives in the biological purification of sewage. In: Proceedings of the 2nd International Biodeter Symposium. Biodeter Mater, 52-60.
- *Pegg SP, Campbell DC. 1985. Children's burns due to cresol. Burns Incl Therm Inj 11(4):294-296.
- *Pellizzari ED, Castillo NP, Willis S, et al. 1979. Identification of organic components in aqueous effluents from energy-related processes. ASTM Spec Tech Publ., STP 686:256-274.
- *Perry RA, Atkinson R, Pitts JN Jr. 1977. Kinetics and mechanism of the gas phase reaction of OH radicals with methoxybenzene and o-cresol over the temperature range 299-435 K. J Phys Chem 81:1607-1611.

8. REFERENCES

- *Pfaender FK, Bartholomew GW. 1982a. Measurement of aquatic biodegradation rates by determining heterotrophic uptake of radiolabeled pollutants. *APPL Environ Microbiol* 44:159-164.
- *Pfaender FK, Bartholomew GW. 1982b. Measurement of aquatic biodegradation rates by determining heterotrophic uptake of radiolabeled pollutants. *APPL Environ Microbiol* 44:1482.
- *Pitter P. 1976. Determination of biological degradability of organic substances. *Water Res* 10:231-235.
- *Platt UF, Winer AM, Biermann HW, et al. 1984. Measurement of nitrate radical concentrations in continental air. *Environ Sci Technol* 18:365-369.
- *Pool BL, Lin PZ. 1982. Mutagenicity testing in the Salmonella tynhimurium assay of phenolic compounds and phenolic fractions obtained from smokehouse smoke condensates. *Food Chem Toxicol* 20(4):383-391.
- *Presley JA, Brown WE. 1956. Lysol-induced criminal abortion. *Obstet Gynecol* 8:368-370.
- *Ram NM, Exner P, Bell R, et al. 1985. Feasibility of treating contaminated ground water at a hazardous waste site. In: *Proceedings of the NWWA/API conference on petroleum hydrocarbons and organic chemicals in ground water --prevention, detection and restoration*, 513-534.
- *Reimann SP. 1933. "Sensitivity" to sylphydryl. *Am J Clin Pathol* 3(2):167-170.
- *Renwick AG, Thakrar A, Lawrie CA, et al. 1988. Microbial amino acid metabolites and bladder cancer: No evidence of promoting activity in man. *Hum Toxicol* 7(3):267-272.
- *Riddick JA, Bunger WB, Sakano TK. 1986. *Organic solvents*. New York, NY:John Wiley and Sons, Inc., 224-229.
- Roberts MS, Anderson RA, Swabrick J. 1977. Permeability of human epidermisto the phenolic compounds. *J Pharm Pharmacol*. 29:677-683.
- *Roberts DJ, Fedorak PM, Hrudey SE. 1987. Comparison of the fates of the methyl carbons of m-cresol and p-cresol in methanogenic consortia, *Can J Microbiol* 33:335-338.
- *Robertson DJ, Groth RH, Blasko TJ. 1980. Organic content of particulate matter in turbine engine exhaust. *J Air Pollut Control Assoc*. 30:261-266.

8. REFERENCES

- *Rogers JE, Li SW, Felice LJ. 1984. Microbiological transformation kinetics of xenobiotics in aquatic environment. Battelle Pacific Northwest Labs, Richland, WA, 105. NTIS PB84-162866. EPA 600/3-84-043.
- *Sabljić A. 1987. [The prediction of fish bioconcentration factors of organic pollutants from the molecular connectivity model.] *Z Gesamte Hyg Ihre Grenzgeb* 33:493-496. (Yugoslavian)
- *Sadtler Index. 1960a. UV spectrum for m-cresol (622). Philadelphia: Samuel Sadtler and Sons, Inc.
- *Sadtler Index. 1960b. UV spectrum for o-cresol (259). Philadelphia: Samuel Sadtler and Sons, Inc.
- *Sadtler Index. 1966. UV spectrum for p-cresol (15). Philadelphia: Samuel Sadtler and Sons, Inc.
- Sane RT, Sonawane KK. Gas-chromatographic determination and separation of isomers of cresol from pharmaceutical preparation. *Indian Drugs* 25(10):420-424.
- SANSS. 1989. Structure and Nomenclature Search System. September 1, 1989.
- *Santodonato J. 1986. Monograph on human exposure to chemicals in the workplace: Cresols. Report to Division of Cancer Etiology, National Cancer Institute, Bethesda, MD by Center for Chemical Hazard Assessment, Syracuse Research Corporation, Syracuse, NY. NTIS PB86-142080.
- *Savolainen H. 1979. Toxic effects of peroral o-cresol intake on rat brain. *Res Commun Chem Pathol Pharmacol* 25(2):357-364.
- *Sawhney BL, Kozloski RP. 1984. Organic pollutants in leachates from landfill sites. *J Environ Qual* 13:349-352.
- *Sax NI, Lewis RJ. 1987. *Hawley's condensed chemical dictionary*, 11th Ed. New York: Van Nostrand Reinhold Co.
- Schaller KH, Angerer J. 1985. *Analyses of hazardous substances in biological materials*. Vol. 1. 6940 Weinheim, Federal Republic of Germany: VCH Verlagsgesellschaft mbH, Postfach 1260/1280.
- Schultz TW, Riggin GW. 1985. Predictive correlations for the toxicity of alkyl- and halogen-substituted phenols. *Toxicol Lett* 25:47-54.
- Scientific Associates. 1976. Skin corrosiveness test in rabbits. Unpublished data submitted to EPA/OTS. Fiche no. OTS206095.

8. REFERENCES

- *Scully FE Jr., Hoigne J. 1987. Rate constants for reactions of singlet oxygen with phenols and other compounds in water. *Chemosphere* 16:681-694.
- *Seizinger DE, Dimitriades B. 1972. Oxygenates in exhaust from simple hydrocarbon fuels. *J Air Pollut Control Assoc* 22:47-51.
- *Shah JJ, Heyerdahl EK. 1989. National ambient volatile organic compound (VOCs) data base update. Nero and Associates. EPA 600/3-88/010(a)
- Sharma AK, Ghosh S. 1965. Chemical basis of the action of cresols and nitrophenols on chromosomes. *Nucleus* 8:183-190.
- *Sheldon LS, Hites RA. 1978. Organic compounds in the Delaware River. *Environ Sci Technol* 12:1188-1194.
- *Sheldon LS, Hites RA. 1979. Sources and movement of organic chemicals in the Delaware River. *Environ Sci Technol* 13:574-579.
- *Shelley WB. 1974. p-Cresol: Cause of ink-induced hair depigmentation in mice. *Br J Dermatol* 90:169-174.
- *Shelton DR, Tiedje JM. 1981. Development of test for determining anaerobic biodegradation potential. Office of Toxic Substances, U.S. Environmental Protection Agency, Washington, DC.
- *Shelton DR, Tiedje JM. 1984. General method for determining anaerobic biodegradation potential. *Appl Environ Microbiol* 47:850-857.
- *Shimp RJ, Pfaender FK. 1985a. Influence of easily degradable naturally occurring carbon substrates on biodegradation of monosubstituted phenols by aquatic bacteria. *Appl Environ Microbiol* 49:394-401.
- *Shimp RJ, Pfaender FK. 1985b. Influence of naturally occurring humic acids on biodegradation of monosubstituted phenols by aquatic bacteria. *Appl Environ Microbiol* 49:402-407.
- *Singer PC, Lamb JC III, Pfaender FK, et al. 1979. Treatability and assessment of coal conversion wastewaters. Phase I. Industrial Environmental Research Laboratory, U.S. Environmental Protection Agency, Research Triangle Park, NC.
- *Smith JH, Mabey WR, Bohonos N, et al. 1978. Environmental pathways of selected chemicals in freshwater systems. Part II: Laboratory studies. Environmental Research Laboratory, U.S. Environmental Protection Agency, Research Triangle Park, NC.
- *Smolenski WJ, Suflita JM. 1987. Biodegradation of cresol isomers in anoxic aquifers. *Appl Environ Microbiol* 58:710-716.

8. REFERENCES

- *Snider EH, Manning FS. 1982. A survey of pollutant emission levels in waste waters and residuals from the petroleum refining industry. *Environ Int* 7:237-258.
- *Southworth GR, Keller JL. 1986. Hydrophobic sorption of polar organics by low organic carbon soils. *Water Air Soil Pollut* 28(3-4):239-248.
- *Spain JC, Van Veld PA. 1983. Adaptation of natural microbial communities to degradation of xenobiotic compounds: Effects of concentration, exposure time, inoculum, and chemical structure. *Appl Environ Microbiol* 45(2):428-435.
- Spangenberg DB. 1984. Use of the Aurelia metamorphosis test system to detect subtle effects of selected hydrocarbons and petroleum oil. In: 2nd International symposium on responses of marine organisms to pollutants, Woods Hole, Mass., USA, Apr. 27-29, 1983. *Mar Environ Res* 14(1-4):281-304.
- *SRI International. 1989. 1989 Directory of chemical producers United States of America. SRI International, Menlo Park, CA.
- Stolyarov BV, Nagimullina AG, Grigor'eva TA, et al. 1987. [Generalized headspace gas-chromatographic analysis of waste waters and workplace air.] *Zh Anal Khim* 42(1):132-138. (Russian)
- *Stone, AT. 1987. Reductive dissolution of manganese (III/IV) oxides by substituted phenols. *Environ Sci Technol* 979-988.
- *STORET. 1989. Online database. September 27, 1989.
- *Stuermer DH, Ng DJ, Morris CJ. 1982. Organic contaminants in groundwater near an underground coal gasification site in northeastern Wyoming. *Environ Sci Technol*. 16:582-587.
- *Stutz DR, Janusz SJ. 1988. Hazardous materials injuries: A handbook for pre-hospital care. 2nd ed. Beltsville, MD: Bradford Communications Corporation, 362-363.
- *Suflita JM, Gibson SA, Beeman RE. 1988. Anaerobic biotransformations of pollutant chemicals in aquifers. *J Ind Microbiol* 3(3):179-194.
- *Suflita JM, Liang IN, Saxena A. 1989. The anaerobic biodegradation of o-, m-, and p-cresol by sulfate-reducing bacterial enrichment cultures obtained from a shallow anoxic aquifer. *J Ind Microbiol* 4(4):255-266.
- *Suidan MT, Cross WH, Kahn KA, et al, 1981. Treatment of phenol and substituted phenols with an anaerobic activated carbon filter. *Chem Water Reuse* 2:509-520.

8. REFERENCES

- *Swann RL, Laskowski DA, McCall PJ, et al. 1983. A rapid method for the estimation of the environmental parameters octanol/water partition coefficient, soil sorption constant, water to air ratio, and water solubility. *Res Rev* 85:17-28.
- *Swindoll CM, Aelion CM, Dobbins DC, et al. 1988. Aerobic biodegradation of natural and xenobiotic organic compounds by subsurface microbial communities. *Environ Toxicol Chem* 7(4):291-299.
- *Tabak HH, Chambers CW, Kabler PW. 1964. Microbial metabolism of aromatic compounds. I. Decomposition of phenolic compounds and aromatic hydrocarbons by phenol-adapted bacteria. *J Bacteriol* 87:910-919.
- *Tembreull R, Lubman DM. 1984. Use of resonant two-photon ionization with supersonic beam mass spectrometry in the discrimination of cresol isomers. *Anal Chem* 56(11):1962-1967.
- *Thomas JM, Lee MD, Scott MJ, et al. 1989. Microbial ecology of the subsurface at an abandoned creosote waste site. *J Indust Microbiol* 4:109-120.
- *TRI. 1989. Toxics Release Inventory, National Library of Medicine, National Toxicology Information Program, Bethesda, MD.
- *TRL. 1986. Subchronic neurotoxicity study in rats of ortho-, meta-, and para-cresol. Unpublished data submitted by Toxicity Research Laboratories to EPA.
- *USITC. 1984. Imports of benzenoid chemicals and products 1983. Investigation 332-135. U.S. International Trade Commission, Washington, DC.
- USITC. 1986. U.S. International Trade Commission. Synthetic organic chemicals, United States production and sales, 1986. Publication no. 2009. Washington, DC: U.S. Government Printing Office, 2-b, 3-l.
- *USITC. 1987. U.S. International Trade Commission. Synthetic organic chemicals, United States production and sales, 1987. Publication no. 2118. Washington, DC: U.S. Government Printing Office, 3-2, 3-b.
- *USITC. 1989. U.S. International Trade Commission. Synthetic organic chemicals, United States production and sales, 1988. Publication no. 2219. Washington, DC: U.S. Government Printing Office, 3-2, 3-b.
- *Uzhdavini ER, Astaf'yeva IK, Mamayeva AA, et al. 1972. [Inhalation toxicity of o-cresol.] *Trudy Ufimskogo Nauchno-Issledovatel'skogo Instituta Gigiyeny Profzabolevaniya*. 7:115-119. (Russian)
- Vaishnav DD, Korthals ET. 1988. Comparison of chemical biodegradation rates in BOD dilution and natural waters. *Bull Environ Contam Toxicol* 41:291-291.

8. REFERENCES

- *van Veld PA, Spain JC. 1983. Degradation of selected xenobiotic compounds in three types of aquatic test systems. *Chemosphere* 12:1291-1305.
- *Vance BM. 1945. Intrauterine injection of Lysol as an abortifacient: Report of a fatal case complicated by oil embolism and Lysol poisoning. *Arch Pathol* 40:395-398.
- *Vecera Z, Janak J. 1987. Continuous aerodispersive enrichment unit for trace determination of pollutants in air. *Anal Chem* 59 (11):1494-1498.
- *Vernot EH, MacEwen JD, Haun CC, et al. 1977. Acute toxicity and skin corrosion data from some organic and inorganic compounds and aqueous solutions. *Toxicol Appl Pharm* 42:417-423.
- *Verschuere K. 1985. Handbook of environmental data on organic chemicals. 2nd ed. New York: Van Nostrand Reinhold Company 403-411.
- *View Database. 1989. Agency for Toxic Substances and Disease Registry (ATSDR), Office of External Affairs, Exposure and Disease Registry Branch, Atlanta, GA. September 25, 1989.
- *Visser SA, LaMontagne G, Zoulalian V, et al. 1977. Bacteria active in the degradation of phenols in polluted waters of the St. Lawrence River. *Arch Environ Contam Toxicol* 6:455-469.
- *Wang YT, Suidan MT, Pfeffer JT, et al. 1988. Effects of some alkyl phenols on methanogenic degradation of phenol. *Appl Environ Microbiol* 54(5):1277-1279.
- *Wang YT, Suidan MT, Pfeffer JT, et al. 1989. The effect of concentration of phenols on their batch methanogenesis. *Biotechnol Bioeng* 33(10):1353-1357.
- *Weast RC, Astle MJ, Beyer WH. 1988. CRC handbook of chemistry and physics. 69th ed. Boca Raton, FL: CRC Press, Inc. C-218 to C-220.
- *Weber AS, Matsumoto MR. 1987. Feasibility of intermittent biological treatment for hazardous wastes. *Environmental Progress* 6(3):166-171.
- *Williams RT. 1938. CXVIII. Studies in detoxication. I. The influence of (a) dose and (b) o-, m- and p-substitution on the sulfate detoxication of phenol in the rabbit. *Biochem J* 32:878-887.
- *Windholz M, Budavari S, Blumetti RF, et al. 1983. The Merck index. Rahway, NJ: Merck and Co., Inc. 2568.
- *Wynder EL. 1967. Tobacco and tobacco smoke studies in experimental carcinogenesis. New York, NY: Academic Press.

8. REFERENCES

- *Yalkowsky SH, Valvani SC, Kuu W. 1987. Arizona database of aqueous solutions.
- *Yasuhara A. 1987. Identification of volatile compounds in poultry manure by gas chromatography-mass spectrometry. J Chromatogr 387:371-378.
- *Yoshikawa M, Taguchi Y, Arashidani K, et al., 1986. Determination of cresols in urine by high-performance liquid chromatography. J Chromatogr 362(3):425- 429.
- Yoshioka Y, Ose Y, Satu T. 1985. Testing for the toxicity with Tetrahymena pyriformis. Sci Total Environ 43(1-2):149-157.
- *Young LY, Rivera MD. 1985. Methanogenic degradation of four phenolic compounds. Water Res 19:1325-1332.
- *Young RHF, Ryckman DW, Buzzell JC Jr. 1968. An improved tool for measuring biodegradability. J Water Pollut Contr Fed R354.
- Younger Labs. 1974. Skin irritation in albino rabbits after application of o- , m-, and p-cresol. Unpublished data submitted to EPA/OTS. Fiche no. OTS0517499